SCHEME -2013

COMPUTER SCIENCE ENGINEERING (R)

Combined I and II Semesters

Course No	Name of subject	Credits	Weekly load, hours			C A Marks	Exam Duration Hrs	U E Max Marks	Total Marks
			L	T	D/P				
13.101	Engineering Mathematics - I (ABCEFHMNPRSTU)	6	2	1	-	50	3	100	150
13.102	Engineering Physics (ABCEFHMNPRSTU)	6	2	1	-	50	3	100	150
13.103	Engineering Chemistry (ABCEFHMNPRSTU)	6	2	1	-	50	3	100	150
13.104	Engineering Graphics (ABCEFHMNPRSTU)	6	1	0	2	50	3	100	150
13.105	Engineering Mechanics (ABCEFHMNPRSTU)	6	2	1	-	50	3	100	150
13.106	Basic Civil Engineering (ABEFHMNPRSTU)	6	2	1	-	50	3	100	150
13.107	Basic Mechanical Engineering (ACEFRT)	6	2	1	-	50	3	100	150
13.108	Basic Electrical and Electronics Engineering (FR)	6	2	1	-	50	3	100	150
13.109	Foundations of Computing and Programming in C (FR)	6	2	1	-	50	3	100	150
13.110	Mechanical Engineering Workshop (ABCEFHMNPRSTU)	2	-	-	1	25	3	50	75
13.111	Electrical & Electronics Engineering Workshop (ABCEFHMNPRSTU)	2	-	-	1	25	3	50	75
	Total	**58**	**17**	**8**	**4**	**500**		**1000**	**1500**

Third Semester

Course No	Name of subject	Credits	Weekly load, hours			C A Marks	Exam Duration Hrs	U E Max Marks	Total Marks
			L	T	D/P				
13.301	Engineering Mathematics-II (ABCEFHMNPRSTU)	4	3	1	-	50	3	100	150
13.302	Humanities (BEFMRSU)	3	3	0	-	50	3	100	150
13.303	Discrete Structures (FR)	3	2	1	-	50	3	100	150
13.304	Electronic Devices and Circuits (FR)	3	2	1	-	50	3	100	150
13.305	Digital System Design (FR)	4	2	2	-	50	3	100	150
13.306	Data Structures and Algorithms (FR)	4	2	2	-	50	3	100	150
13.307	Electronic Circuits Lab (FR)	4	-	-	4	50	3	100	150
13.308	Programming Lab (FR)	4	-	-	4	50	3	100	150
	Total	**29**	**14**	**7**	**8**	**400**		**800**	**1200**

Fourth Semester

Course No	Name of subject	Credits	Weekly load, hours			C A Marks	Exam Duration Hrs	U E Max Marks	Total Marks
			L	T	D/P				
13.401	Probabilty, Random Processes and Numerical Techniques (FR)	4	3	1	-	50	3	100	150
13.402	Computer Organization and Design (FR)	3	2	1	-	50	3	100	150
13.403	Object Oriented Techniques (FR)	3	2	1	-	50	3	100	150
13.404	Data Communication (FR)	3	2	1	-	50	3	100	150
13.405	Data Base Design (FR)	4	2	2	-	50	3	100	150
13.406	Formal Languages and Automata Theory(R)	4	3	1	-	50	3	100	150
13.407	Data Structures Lab(FR)	4	-	-	4	50	3	100	150
13.408	Digital System Lab(R)	4	-	-	4	50	3	100	150
	Total	**29**	**14**	**7**	**8**	**400**		**800**	**1200**

Fifth Semester

Course No	Name of subject	Credits	Weekly load, hours			C A Marks	Exam Duration Hrs	U E Max Marks	Total Marks
			L	T	D/P				
13.501	Abstract Algebra, Number theory and Optimization (FR)	4	3	1	-	50	3	100	150
13.502	Linear Algebra and Queuing Theory (FR)	4	3	1	-	50	3	100	150
13.503	Operating Systems (FR)	3	2	1	-	50	3	100	150
13.504	Systems Programming (FR)	3	2	1	-	50	3	100	150
13.505	Microprocessors and Interfacing(R)	4	2	2	-	50	3	100	150
13.506	Object Oriented Design and JAVA Programming(R)	3	2	1	-	50	3	100	150
13.507	Object Oriented Programming Lab (R)	4	-	-	4	50	3	100	150
13.508	Application Software Development Lab(R)	4	-	-	4	50	3	100	150
	Total	**29**	**14**	**7**	**8**	**400**		**800**	**1200**

Sixth Semester

Course No	Name of subject	Credits	Weekly load, hours			C A Marks	Exam Duration Hrs	U E Max Marks	Total Marks
			L	T	D/P				
13.601	Compiler Design (FR)	4	3	1	-	50	3	100	150
13.602	High Performance Microprocessors and Micro Controllers (R)	3	2	1	-	50	3	100	150
13.603	Design and Analysis of Algorithms (FR)	4	3	1	-	50	3	100	150
13.604	Computer Networks (FR)	3	2	1	-	50	3	100	150
13.605	PC Hardware and Interfacing (R)	4	3	1	-	50	3	100	150
13.606	Signals and Systems (R)	3	2	1	-	50	3	100	150
13.607	Microprocessor Lab (R)	4	-	-	4	50	3	100	150
13.608	System Software Lab (R)	4	-	-	4	50	3	100	150
	Total	**29**	**15**	**6**	**8**	**400**		**800**	**1200**

Seventh Semester

Course No	Name of subject	Credits	Weekly load, hours			C A Marks	Exam Duration Hrs	U E Max Marks	Total Marks
			L	T	D/P				
13.701	Computer Graphics (R)	3	2	1	-	50	3	100	150
13.702	Principles of Programming Languages (FR)	3	2	1	-	50	3	100	150
13.703	Embedded Systems (R)	3	2	1	-	50	3	100	150
13.704	Software Engineering and Project Management (FR)	3	2	1	-	50	3	100	150
13.705	Elective I	3	2	1	-	50	3	100	150
13.706	Elective II	3	2	1	-	50	3	100	150
13.707	Computer Hardware and Interfacing Lab (R)	4	-	-	4	50	3	100	150
13.708	Operating Systems and Network Programming Lab (R)	4	-	-	4	50	3	100	150
13.709	Seminar, Project Design and Industrial Visit (R)	3	-	-	3	150	-	-	150
	Total	**29**	**12**	**6**	**11**	**550**		**800**	**1350**

Eighth Semester

Course No	Name of subject	Credits	Weekly load, hours			C A Marks	Exam Duration Hrs	U E Max Marks	Total Marks
			L	T	D/P				
13.801	Cryptography and Network Security (R)	4	3	1	-	50	3	100	150
13.802	Computer System Architecture (R)	4	3	1	-	50	3	100	150
13.803	Distributed Systems (R)	4	3	1	-	50	3	100	150
13.804	Elective III	4	3	1	-	50	3	100	150
13.805	Elective IV	4	3	1	-	50	3	100	150
13.806	Algorithm Design and Graphics Lab (R)	4	-	-	4	50	3	100	150
13.807	Project Work and Viva Voce (FR)	5	-	-	5	150	-	100	250
	Total	**29**	**15**	**5**	**9**	**450**		**700**	**1150**

13. 705 Elective I

13.705.1	Multimedia Systems and Data Compression (FR)
13.705.2	Computational Geometry (R)
13.705.3	Control Systems Engineering (R)
13.705.4	Web Technology (R)
13.705.5	C# and .NET Framework (R)

13.706 Elective II

13.706.1	Fuzzy Set Theory and Applications (FR)
13.706.2	Data Mining and Information Retrieval (FR)
13.706.3	Digital Image Processing (R)
13.706.4	Pattern Recognition and Scene Analysis (R)
13.706.5	Advanced Data Base Management System (R)

13.804 Elective III

13.804.1	Soft Computing (FR)
13.804.2	Cloud Computing (FR)
13.804.3	Fundamentals of Neural Networks (R)
13.804.4	Mobile and Wireless Networks (R)
13.804.5	Optimization Techniques and Decision Making (R)

13. 805 Elective IV

13.805.1	Robotics and Computer Vision (FR)
13.805.2	Graph Theory (FR)
13.805.3	Natural Language Processing (FR)
13.805.4	Mobile Computing (R)
13.805.5	Artificial Intelligence (R)